## Claims

- [01] An overhead area access staircase stowage system comprising:
  - at least one servicing unit comprising;
  - at least one stowage unit; and
  - a staircase proximate to said at least one stowage unit and having a stowed state and a deployed state, said staircase comprising;
  - a plurality of stair elements; and
  - a state actuating system transitioning said stair elements between said stowed state and said deployed state.
- [c2] A staircase stowage system as in claim 1 wherein said servicing unit comprises:
  - a first portion comprising;
  - a first stowage unit; and
  - said staircase; and
  - a second portion comprising a second stowage unit.
- [c3] A staircase stowage system as in claim 2 wherein said first portion comprises a platform member corresponding with a staging area.
- [c4] A staircase stowage system as in claim 3 wherein said

- platform member is a stair element of said staircase.
- [05] A staircase stowage system as in claim 2 wherein said second portion comprises a platform member corresponding with a staging area.
- [06] A staircase stowage system as in claim 1 wherein said staircase comprises at least one stowage module.
- [c7] A staircase stowage system as in claim 1 further comprising at least one divider separating stowage units of said at least one stowage unit.
- [08] A staircase stowage system as in claim 7 wherein said at least one divider separates said staircase and said at least one stowage unit.
- [c9] A staircase stowage system as in claim 1 further comprising a plurality of cart bumpers coupled to said at least one divider.
- [c10] A staircase stowage system as in claim 1 further comprising a plurality of cart bumpers coupled to said at least one stowage unit and guiding stowage of at least one service cart.
- [c11] A staircase stowage system as in claim 1 wherein said at least one stowage module resides between stair elements of said plurality of stair elements.

- [c12] A staircase stowage system as in claim 1 wherein said staircase comprises at least one access panel coupled to said plurality of stair elements and allowing access to said at least one stowage module.
- [c13] A staircase stowage system as in claim 1 wherein said state actuating system comprises:
  a plurality of rollers;
  a U-shaped stair support member transitioning between states on said plurality of rollers;
  a potential energy device coupled to said U-shaped stair support member and assisting transition of said stair—case between said stowed state and said deployed state.
- [c14] A staircase stowage system as in claim 13 wherein said rollers guide transition of and support said staircase.
- [c15] A staircase stowage system as in claim 13 further comprising at least one service cart retainer coupled to said U-shaped stair support member.
- [c16] A staircase stowage system as in claim 1 further comprising at least one service cart retainer coupled to said staircase.
- [c17] A staircase stowage system as in claim 1 further comprising at least one release mechanism allowing actua-

tion of said staircase.

- [c18] A staircase stowage system as in claim 1 wherein said state actuating system comprises a deployment handle.
- [c19] A staircase stowage system as in claim 1 wherein said state actuating system comprises a motor.
- [c20] A staircase stowage system as in claim 1 wherein said plurality of stair elements have a plurality of shapes.
- [c21] A staircase stowage system as in claim 1 wherein said staircase further comprises at least one staging element.
- [c22] A staircase stowage system as in claim 1 wherein said staircase is deployable from at least one of a ceiling and a floor.
- [c23] A staircase stowage system as in claim 1 wherein said staircase has a stowed state substantially above a service cart level and a deployed state substantially at said service cart level.
- [c24] A staircase stowage system as in claim 1 wherein said at least one servicing unit is approximately one or more service carts deep.
- [c25] A staircase stowage system as in claim 1 wherein said staircase is approximately one or more service carts

deep.

- [c26] A staircase stowage system as in claim 1 wherein said at least one servicing unit comprises: at least one platform member; and at least one worktable.
- [c27] A staircase stowage system as in claim 1 wherein said plurality of stair elements comprises: parallel step elements; and angled step elements.
- [c28] An aircraft comprising:
  a galley comprising;
  at least one stowage unit; and
  a staircase proximate to said at least one stowage unit
  and having a stowed state and a deployed state, said
  staircase comprising;
  a plurality of stair elements; and
  a state actuating system transitioning said stair elements
  between said stowed state and said deployed state.
- [c29] An aircraft as in claim 7 wherein said at least one stowage unit comprises at least one service cart stowage unit.
- [c30] An overhead area access staircase stowage system comprising:

at least one service cart stowage unit; at least one stowage module; and a staircase proximate to said at least one service cart stowage unit, coupled to said at least one stowage module, and having a stowed state and a deployed state, said staircase comprising;

a plurality of stair elements; and a state actuating system transitioning said stair elements between said stowed state and said deployed state.

- [c31] A staircase stowage system as in claim 30 wherein said staircase is deployable within said at least one stowage unit and comprises said at least one stowage module.
- [c32] A method of accessing an overhead area and stowing objects within a stowage unit of an aircraft comprising: accessing a staircase within a stowage unit; releasing said staircase; deploying said staircase within said stowage unit comprising; releasing a plurality of stair elements; and supporting said plurality of stair elements;

releasing a plurality of stair elements; and supporting said plurality of stair elements; ascending said plurality of stair elements; interacting with the overhead area; and stowing said staircase.

[c33] A method as in claim 32 further comprising stowing ob-

- jects within said staircase.
- [c34] A method as in claim 32 further comprising retaining service carts within said stowage unit.
- [c35] A method as in claim 34 wherein retaining service carts comprises the rotation of retainers coupled to at least one of a staircase base and a staging area platform member.
- [c36] A method as in claim 32 further comprising stowing at least one service cart below at least one of a worktable and a platform member before deploying said staircase.
- [c37] An aircraft comprising:
   an aircraft structure having at least one overhead area;
   and
   a staircase system comprising;
   at least one stowage module; and
   a staircase having a stowed state and a deployed state
   within a stowage unit, said staircase comprising;
   a plurality of stair elements; and
   a state actuating system transitioning said stair elements
   between said stowed state and said deployed state;
   said staircase when in said deployed state providing access to the overhead area.
- [c38] An aircraft as in claim 37 wherein said at least one

- stowage module reside between stair elements of said plurality of stair elements.
- [c39] An aircraft as in claim 37 wherein said staircase system further comprises a service cart stowage unit.
- [c40] A system as in claim 37 wherein said overhead area has a multiple service cart depth.